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PATENT TRADEMARK OFFICE

TO: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attorney Docket No. 253/043
(must include alphanumeric codes if no inventors named)

UTILITY PATENT APPLICATION TRANSMITTAL
(new nonprovisional applications under 37 CFR 1.53(b))

Transmitted herewith for filing is the patent application of:

**INVENTOR(S): Gyeong-Su KEUM, Gum-Hyun SHIN, Hyung-Sik HONG, Kyue-Sang
CHOI, Chung-Hun PARK**

TITLE: POLARITY EXCHANGER AND ION IMPLANTER HAVING THE SAME

In connection with this application, the following are enclosed:

APPLICATION ELEMENTS:

XX Specification - 29 TOTAL PAGES

(preferred arrangement:)

- Descriptive Title of the Invention
- Cross Reference to Related Applications
- Statement Regard Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

XX Drawings - Total Sheets 4

XX Declaration and Power of Attorney - Total Sheets 3

XX Newly executed (original or copy)

 Copy from a prior application (37 CFR 1.63(d))

(relates to continuation/divisional boxes completed) - NOTE: Box below

 DELETION OF INVENTOR(S) - Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d) (2) and 1.33(b).

 Incorporation By Reference (useable if copy of prior application
Declaration being submitted)

The entire disclosure of the prior application, from which a COPY of the
oath or declaration is supplied as noted above, is considered as being
part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.

 Microfiche Computer Program (Appendix)

 Nucleotide and/or Amino Acid Sequence Submission (if applicable,
all necessary)

 Computer Readable Copy

 Paper Copy (identical to computer copy)

 Statement verifying identify of above copies

ACCOMPANYING APPLICATION PARTS

Assignment Papers (cover sheet & document(s))
 37 CFR 3.73(b) Statement (when there is an assignee)
 English Translation Document (if applicable)
 Information Disclosure Statement (IDS) with PTO-1449. Copies of IDS Citations
 Preliminary Amendment
 Return Receipt Postcard (MPEP 503)
 Small Entity Statement(s)
 Statement file in prior application, status still proper and desired.
 Certified Copy of Priority Document(s) with Claim of Priority
 (if foreign priority is claimed).
 OTHER: Check for

If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

Continuation Divisional Continuation-in-part (CIP)
of prior application Serial No. _____.

Amend the specification by inserting before the first line the following sentence: --This application is a _____ continuation, divisional or _____ continuation-in-part of application Serial No. _____, filed _____.

CORRESPONDENCE ADDRESS:

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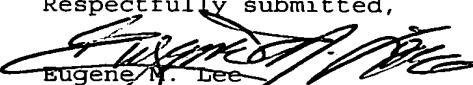
FEES CALCULATIONS: (Small entity fees indicated in parentheses.)

(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$770.00 (\$385)
Total Claims	19 - 20 =	0	x \$18 (x \$9)	0.00
Independent Claims	2 - 3 =	0	x \$86 (x \$43)	0.00
Multiple Dependent Claims			\$290 (\$145)	0.00
Assignment Recording Fee per property			\$40	40.00
			TOTAL FEE:	810.00

METHOD OF PAYMENT:

The Commissioner is hereby authorized to charge the fees connected with the filing of this application to Deposit Account No. 5-01645.

Respectfully submitted,


Eugene M. Lee
Reg. No. 32,029
Richard A. Sterba
Reg. No. 43,162

Date: December 10, 2003